AMSAT News Service Weekly Bulletins
Issue: ANS-166
Date: 2014-06-15
Sources: amsat-ans-2014-ans-166-weekly-hyperkitty-c77d53cb8f.txt

---

AMSAT NEWS SERVICE
ANS-166

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT North America, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to:
ans-editor at amsat.org.

In this edition:

* FOX-1 Featured in HamRadioNow Episode 151
* AMSAT Field Day Reminder - June 28-29
* NASA TV to air Russian spacewalk
* ARTSAT1: INVADER Recovered
* OSCAR Number for LituanicaSAT-1, LO-78
* 3rd Annual ISS Research and Development Conference
* Send Your Name to the Asteroid Bennu!
* ARISS News - Ian MacFarquhar, VE9IM appointed as
  ARISS Regional Representative
* Satellite Shorts From All Over

SB SAT @ AMSAT $ANS-166.01
ANS-166 AMSAT News Service Weekly Bulletins

AMSAT News Service Bulletin 166.01
>From AMSAT HQ KENSINGTON, MD.
DATE June 15, 2104
To All RADIO AMATEURS
BID: $ANS-166.01

FOX-1 Featured in HamRadioNow Episode 151

HamRadioNow Episode 151 features Keith Baker KB1SF, VA3KSF and Burns Fisher W2BFJ talking about FOX-1.

The duo are interviewed on FOX-1 during the Dayton Hamvention by Gary Pearce KN4AQ of HamRadioNow. Their interview begins at about the 19:27 into the 38 minute video. It begins with a short tribute to Tony Montiero AA2TX, then Keith and Burns talk about the the general construction of the FOX-1 satellite and its capabilities and functionality in space.

http://www.youtube.com/watch?v=VrC_52JcdeU&feature=em-subs_digest

[ANS Thanks HamRadioNow for the above information]

AMSAT Field Day Reminder - June 28-29

Field Day is now just 2 weeks away!

Each year the American Radio Relay League (ARRL) sponsors Field Day as a "picnic, a campout, practice for emergencies, an informal contest and, most of all, FUN!". The event takes place during a 24-hour period on the fourth weekend of June. For 2014 the event takes place during a 27-hour period from 1800 UTC on Saturday June 28, 2014 through 2100 UTC on Sunday June 29, 2014. Those who set up prior to 1800 UTC on June 29 can operate only 24 hours. The Radio Amateur Satellite Corporation (AMSAT) promotes its own version of Field Day for operation via the amateur satellites, held concurrently with the ARRL event.

Your Field Day on-the-air exchange with other stations via satellite is the same as the ARRL exchange for all bands and modes. AMSAT Field Day Rules in PDF format can be found on the AMSAT web:

http://www.amsat.org/?page_id=216

The rules document also includes a copy of the Field Day Satellite Summary Sheet which should be used for submission of the AMSAT Field Day competition when sending your report to Bruce, KK5DO, by e-mail or postal mail. Your Summary Sheet must be received by 11:59 P.M. CDT, Monday, July 14, 2014.

The preferred method for submitting your log is via e-mail to kk5do at amsat dot org or kk5do at arrl dot net. You will receive an email back(within one or two days) from me when I receive your email submission. If you do not receive a confirmation message, then I have not received your submission. Try sending it again or send it to Bruce's other email address.

You may also use the postal service but give plenty of time for your results to arrive by the submission date.

If mailing your submission, the address is:

   Bruce Paige, KK5DO
   Director of Awards and Contests
   PO Box 310
   Alief, TX 77411-0310

Please include photographs or other interesting information that can be used in an article or the AMSAT Journal.

Remember, AMSAT rules limit the use of the FM single channel satellites(such as SO-50) to one-QSO-per-FM-satellite. This includes the International Space Station. You will be allowed one QSO if the ISS is operating Voice. You will also be allowed one digital QSO with the ISS or any other digital, non-store-and-forward, packet satellite (if operational).

A lot of good contacts can be made on the linear transponder satellites including AO-73, VO-52, FO-29, and AO-7. During Field Day the transponders come alive like 20 meters on a weekend. The transponders on these satellites will support multiple simultaneous SSB or CW contacts.

The AMSAT Field Day 2014 event is open to all Amateur Radio

operators. The AMSAT competition is to encourage the use of all amateur satellites, both analog and digital.

[ANS thanks AMSAT Director Contests and Awards, Bruce Paige, KK5DO for the above information]

NASA TV to air Russian spacewalk

NASA Television will air live coverage of a six-and-a-half hour spacewalk by two Russian International Space Station crew members beginning at 9:15 a.m. EDT Thursday, June 19.

Expedition 40 Flight Engineers Alexander Skvortsov and Oleg Artemyev of the Russian Federal Space Agency will don their Orlan spacesuits and exit the Pirs airlock at 9:50 a.m. to install new communications equipment on the Zvezda service module. They also will reposition hardware.

The spacewalk will be the 180th in support of space station assembly and maintenance and the first for both Skvortsov and Artemyev. Another spacewalk for the pair is planned for late August.

Skvortsov will be designated as extravehicular crew member 1 (EV1) and will wear a spacesuit bearing red stripes. Artemyev will be designated as extravehicular crew member 2 (EV2) and will wear a suit with blue stripes.

For NASA TV streaming video, schedule and downlink information, visit:
http://www.nasa.gov/nasatv

For more information about the International Space Station and its crew, visit:
http://www.nasa.gov/station

[ANS thanks Southgate ARN for the above information]

ARTSAT1: INVADER Recovered

The ARTSAT members have successfully recovered the ARTSAT1: INVADER.
The reset command for the power OBC was sent.
They are planning to work digi-talker again.

Your reports are very helpful for the recover.
Thank you very much for your cooperation.
Please enjoy to litsen the satellite continuously.

They predict it will be about one month before re-entry.

[ANS thanks Masahiro JI1IZR for the above information via AMSAT-BB]

OSCAR Number for LituanicaSAT-1, LO-78

In a message to the LituanicaSAT-1 team, AMSAT-NA OSCAR Number Administrator Bill Tynan, W3XO announced, "LituanicaSAT-1 has met all of the requirements for an OSCAR number. My findings from information provided to AMSAT-NA and IARU officials confirm this to be true. Accordingly, under the authority vested in me by the AMSAT-NA President, I do hereby assign LituanicaSAT-1 the designation LituanicaSAT OSCAR-78, or LO-78. I, and all of the amateur radio satellite community, wish LituanicaSAT OSCAR-78 a long and successful mission."

On behalf of the LituanicaSAT-1 team, Simon Kareiva, LY2EN replied, "It is my honor and pleasure to accept this assignation. Our team is focused to keep LO-78 operational for the benefit of amateur radio as long, as it is possible for a small cubesat. Thank you very much, Simon LY2EN."

The LituanicaSAT-1 team has announced activation of the FM transponder. A general rule to find out if the transponder is working at the moment is to monitor the beacon frequency on 437.275 MHz. If you can hear CW FM beacon it means that transponder is off, if you cannot hear it - the transponder is on. The transponder frequencies are approximately 435.1755 MHz (+/- 10 kHz Doppler shift) for the downlink and 145.950 MHz for the uplink with 67 Hz CTCSS.

In response to the news Simon Kareiva LY2EN responded, "It is my honor and pleasure to accept this assignation. Our team is focused to keep LO-78 operational for the benefit of amateur radio as long, as it is possible for a small cubesat."

[ANS thanks Bill Tynan, W3XO, AMSAT-NA OSCAR Number Administrator for the above information]

3rd Annual ISS Research and Development Conference

The 3rd Annual ISS Research and Development Conference will be held this week June 17-19, 2014 at the Hyatt Regency McCormick Place, Chicago.

This conference focuses on ISS Research and Development -- Discoveries in Microgravity Science; Discoveries in Space Science, Earth Science, Engineering and Education; Applications Benefitting Earth; Applications Enabling Technology and Exploration; and Opportunities.

This is the only annual gathering offering perspectives on the impressive breadth of research and technology development on the ISS - one stop for understanding the full suite of opportunities available now.

The conference is organized by the American Astronautical Society in cooperation with the Center for the Advancement of Science in Space (CASIS) and NASA.

AMSAT's V.P. Human Sapceflight, Frank Bauer KA3HDO will be lead presenter for a presentation compiled by members of the ARISS-US team, Bauer, Rosalie White K1STO, Debra Johnson K1DMJ and E. Mike McCardel KC8YLD. The Presentation "ARISS---Inspiring and Educating Youth through Direct Connections with the ISS Crew" focuses on Amateur Radio on the International Space station (ARISS).

Amateur Radio on the International Space Station (ARISS) represents the first and longest continuous operating educational outreach program to fly on the International Space Station (ISS). ARISS is sponsored by NASA, many international space agencies, and several international amateur radio societies. Its primary purpose is to allow students, engaged in a science and technology curriculum, to speak with an astronaut orbiting the Earth on the International Space Station. Using amateur (ham) radio, the students ask questions about life in space or other space-related topics. Students fully participate in the ARISS contact by helping set up an amateur radio ground station at the school and then using that station to talk directly with the on-board crew member for approximately ten minutes, the time of an ISS overhead pass. ARISS conducts about 100 school contacts per year with students in the US and around the world. Since its beginnings 14 years ago, ARISS has conducted nearly 900 school contacts, inspiring and engaging students, worldwide, to pursue STEM careers--as only NASA can!

Preparation for the ARISS experience motivates both students and teachers to further their education. Through one of our US team partners, the American Radio Relay League, ARISS educators can learn about electronics and radio technology through a hands-on training program called the Teacher's Institute. Also, in preparation for their contact with the ISS crew, the children learn about radio waves, space technology, science experiments on ISS, geography and the space environment. In many cases, the students help write press releases and give presentations on the contact to their fellow students and to the local community. And on contact day, the entire local community shares in the ARISS experience. Through this hands-on, grass-roots experience, students are engaged and educated in STEM fields, and are inspired to pursue STEM-related careers choices. Approximately 15,000 students are touched directly by an ARISS contact each year and tens of millions from the general public witness the contact either directly or through the news media.

Thei presentation will provide some historical background on the ARISS program, it will describe the international volunteer team that is responsible for making this low-cost, high payoff program such a huge success, and provide an overview of the proposal submittal, selection and contact preparation process. Most importantly, it will convey how the ARISS team, partnered with the NASA Education Teaching from Space program, engages the schools and students in educational opportunities. And it will describe some of the educational outcomes from ARISS, including data and feedback from schools, students, and organizations.

[ANS thanks The American Astronautical Society for the above information]

Send Your Name to the Asteroid Bennu!

NASA is inviting people around the world to submit their names to be etched on a microchip aboard a spacecraft headed to the asteroid Bennu in 2016.

The "Messages to Bennu!" microchip will travel to the asteroid aboard the Origins Spectral Interpretation Resource Identification Security Regolith Explorer, or OSIRIS-REx, spacecraft. The robotic mission will spend more than two years at the asteroid, which has a width of approximately 1,760 feet (500 meters). The spacecraft will collect a

sample of Bennu's surface and return it to Earth in a sample return capsule.

The deadline to submit names online is Sept. 30, 2014. Participants who submit their names to the "Messages to Bennu!" campaign will be able to print a certificate of appreciation to document their involvement.

For more information and to submit your name, visit http://planetary.org/bennu.

Participants who "follow" or "like" the mission on Facebook (https://www.facebook.com/OSIRISREx) will receive updates on the location of their names in space from launch time until the asteroid samples return to Earth in 2023. Facebook fans also will receive mission progress and late-breaking news through regular status updates.

For more information about the OSIRIS-REx mission, visit http://www.nasa.gov/osiris-rex and http://osiris-rex.lpl.arizona.edu.

Questions about this opportunity should be directed to tps(a)planetary.org.

[ANS thanks NASA Education Express Message -- June 12, 2014 for the above information]

ARISS News

Ian MacFarquhar, VE9IM appointed as ARISS Regional Representative

The Radio Amateurs of Canada (RAC) has appointed Ian MacFarquhar, VE9IM to be the new ARISS Regional Representative. Ian replaces former representative, Daniel Lamoureux, VE2KA.

Rosalie White K1STO, ARISS-ARRL Delegate and ARISS-International Secretary-Treasurer comments by saying .

"Canadian ARISS representatives have always been a huge benefit to the ARISS team. Not only have the Canadians contributed a great deal of sound thinking and hard work, but many have been highly active with IARU long before getting involved in ARISS -- this was a huge benefit since ARISS is an international group. Also, because Canadians, generally, are talented in multiple languages, Canadian ARISS reps take on schools and education groups in Mexico, Central America, and South America (in addition to Canada) who send ARISS education proposals. Historically, Canadian ARISS reps have handled the election processes for ARISS international officers. We know Ian will add a lot to our team, as well."

In a recent press release from RAC, Geoff Bawden VE4BAW, RAC President says ."Mr. MacFarquhar has been Vice President, supervised the successful insurance program and has been a pillar in RAC for longer than he cares to remember."

sources: RAC web site:
http://tinyurl.com/ANS-166-RAC

[ANS thanks David Jordan, AA4KN and ARISS for the above information]

Upcoming ARISS Contact Schedule

Focus Camps - Sterrenlab, Italy and European Space Center,
Transinne, Belgium telebridge via IK1SLD
Contact is a go for: Fri 2014-06-20 18:36:47 UTC

Ufa University, Ufa, Russia, direct via TBD
Contact is a go for Sat 2014-06-21 14:45 UTC

[ANS thanks ARISS and Charlie AJ9N for the above information]

Satellite Shorts From All Over

+ The American Astronautical Society's "Space Times" Volume 53,
  Issue 2 (March/April 2014) is now online in PDF Format
  http://www.astronautical.org/spacetimes/53-2

+ Visit with other Amateur Radio Space enthusiasts on the
  AMSAT North America Facebook page
  https://www.facebook.com/groups/7828379515/

+ A wealth of information and updated and breaking news can be found
  on the AMSAT-NA Website
  http://www.amsat.org/

+ Special event station GB1JSS will be active on the amateur radio
  satellites during the Summer Solstice on Saturday, June 21, the
  longest day of the year in the Northern Hemisphere. The event is
  open to all radio amateurs and listeners.
  http://amsat-uk.org/2014/06/11/gb1jss-summer-solstice/

  [ANS thanks AMSAT-UK for the above information]

+ 50th anniversary of historic Chelmsford EME contact
  http://tinyurl.com/ANS-166-50thAnniversary

  [ANS thanks AMSAT-UK for the above information]

+ For those who subscribe to AMSAT-UK's Oscar News, digitally, The
  next edition of Oscar News (Number 206 - June 2014) is now ready for
  download.

  It contains details of how to book the Colloquium. Please note
  that the hotel will only reserve our rooms until 24 June - so please
  make your booking for accomodation with the hotel before then. After
  that date its 'subject to availability', as the saying goes!

  The AMSAT-UK Oscar News web site is at http://www.amsatuk.me.uk/on
  You must be a member, with login, to acquire the newsletter this
  way.

  [ANS Thanks Jim G3WGM for the above information]

/EX

In addition to regular membership, AMSAT offers membership in the

President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT Office.

Primary and secondary school students are eligible for membership at one-half the standard yearly rate. Post-secondary school students enrolled in at least half time status shall be eligible for the stu -dent rate for a maximum of 6 post-secondary years in this status. Contact Martha at the AMSAT Office for additional student membership information.

73,
This week's ANS Editor,
EMike McCardel, KC8YLD
kc8yld at amsat dot org